

Exhibit B**Comparison of 1A7 light chain variable region with database sequences**

1A7:	1	DVLMTQTPLSLPVSLGDOASTISCRSSOSIVHSNGNTYLEWYLQKPGQSPNLLIYFVSNRF	60
1	1	.....K...K....	60
2	1	.....K...K....	60
3	1	.V.....K...K....	60
4	1	.....K...K....	60
5	1	.....K...K....	60
6	1	.....K...K....	60
7	1	.....K...K....	60
8	1	.....X..K...K....	60
9	5	.....S...F.....K...K....	64
10	1	.....K...K....	60
11	1	.....K...K....	60
12	20	.....K...K....	79
13	1	.....K...K....	60
14	1	.....K...K....	60
15	5	.....S...F.....K...K....	64

1A7:	61	SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYYCFQGSHPWTFGGGTKLEIK	112
1	61	.....	112
2	61	.....	112
3	61	.....	112
4	61	.....	111
5	61	...X.....	112
6	61	.....Y.....	112
7	61	.....C.....	111
8	61	.....	111
9	65	.....T.....	116
10	61	.....R.....Y.....	112
11	61	.....R.....	112
12	80	.....Y...S.....	131
13	61	.....Y.....	112
14	61	.....T.....W.....Y.....	112
15	65	.....Q.....T.....	116

DATABASE REFERENCE:

1	gp	M34588	MU SIGKABR_1	Mouse Ig kappa-chain mRNA V-J regi...
2	gp	L18941	MU SIG4388_1	Mouse rearranged immunoglobulin li...
3	gp	222035	MD IGKVAH_T	immunoglobulin variable region (Mu...
4	gp	M32857	MU SIGKCSP_1	Mouse Ig rearranged kappa-chain mR...
5	gp	M34589	MU SIGKABS_1	Mouse Ig kappa-chain mRNA V-J regi...
6	gp	J04438	MUSIGKCMA_T	Mouse Ig-kappa chain (PAC1) mRNA V...
7	gp	M31271	MUSIGKCSM_1	IgM gene product (Mus musculus)
8	gp	M32858	MUSIGKCSQ_1	Mouse Ig rearranged kappa-chain mR...
9	gp	U29428	MMU29428_1	anti-PC Ig kappa chain (Mus musculus)
10	gp	X65770	MMIGHMM4_1	IgM gene product (Mus musculus)
11	gp	M83723	MUSIGKD2A_2	immunoglobulin kappa-chain VK-1 (M...
12	pir	B39276	B39276	Ig light chain precursor V-D-J reg...
13	gp	L14370	MUS1GKJISA_1	immunoglobulin kappa chain (Mus mu...
14	pir	A31807	A31807	Ig kappa chain V region (PAC1) - m...
15	gp	U29267	MMU29267_1	IgI rearranged kappa chain V-J reg...

Comparison of 1A7 heavy chain variable region with database sequences

1A7:	1	QVQVKESGPFVPPSQSLSTICTVSGFSLTTYGVSWIRQPPGKGLEWLGAIWGDGTTNYH	60
1	1	.G..A.....S...V.....V....S....	52
2	1	...LQ...G..A.....S..IT.V.....V....N....	60
3	20	...L...G..A.....G..N.V.....T...N.S.D.N	79
4	1	...L..T..G..A.....S...H.V.....VV..S..S...N	60
5	1	...L...G..A.....S...H.V.....V..AG.S...N	60
6	1	...L...G..A.....S...H.V.....V..AG.S...N	60
7	1	...L...G..A.....P..S..D.V.....V...G.S...N	60
8	23	...LQ...G..A.....G..N.V.....M....N.D.N	82
9	1	...L...G..A.....G..N.V.....M....N.D.N	60
10	133	...LQ...G..A.....G..N.V.....M....N.D.N	192
11	20	...L...G..A.....G..N.V.....M....N.D.N	79
12	1	...L...G..A.....SR.S.H.V.....M....G.N.D.N	60
13	21	..HL...V..A.....N...H.V.....V..AG.N...N	80
14	23	...LQ...G..A.....G..N.V.....M....N.D.N	82
15	1	...LQ...G..A.....G..N.V.....M....N.D.N	60
1A7:	61	SALISRLSISKDNKSQVFLKLNLSLQDDTATYYCAKL-----GNYDALDWGGGTSVTVSS	117
1	53	.....P-----YDYEXXXXX.Y....TL..	109
2	61	.....X-----XXXXXXXX.K.Y.....	120
3	80	.T.K...T.T.....M.....R....SVSIYYGRSDK.FT..Y.....	144
4	61	..K.....M.....M...Rx-----xx.D.Y.M.Y.....	119
5	61	..M.....M.....M...Rx-----XXXXXX.Y.M.Y.....	120
6	61	..M.....M.....M...Rx-----XXXX.Y.M.Y.....	118
7	61	..M.....M...X...M...xx-----xxx.X.Y.M.Y.....	119
8	83	..K.....M...H...R...RE-----=RDYR..Y.....T.....	138
9	61	..K.....M...H...R...RE-----=RDYR..Y.....TL.....	116
10	193	..K.....M...H...R...RE-----=RDYR..Y.....T.....	248
11	80	..K.....M...H...R...RE-----=RDYR..Y.....TL.....	135
12	61	..K.....M.....M...RD-----GYDYX.M.Y.....	117
13	81	..M.....M.....I...I...xx-----XXXX.Y.M.Y.....	139
14	83	..K.....M...H...R...RE-----=RDYR..Y.....T.....	138
15	61	..K.....M...H...R...RE-----=RDYR..Y.....T.....	116

DATABASE REFERENCE:

1	sp	M36221	MUSIGHAE8_1	immunoglobulin heavy chain V-region
2	gp	U01185	MMU01185_1	immunoglobulin heavy chain [Mus mu...
3	sp	P01819	HV43 MOUSE	IG HEAVY CHAIN PRECURSOR V REGION ...
4	gp	M26985	MUSIGH1PR_2	Igh gene product [Mus musculus]
5	gp	M36217	MUSIGHADK_1	immunoglobulin heavy chain V-regio...
6	sp	M36228	MUSIGHAEI_1	immunoglobulin heavy chain V-regio...
7	sp	M34626	MUSIGHACK_1	Mouse Ig rearranged heavy chain (M...
8	sp	A05515	A05515_1	Vector pSW2HPOLY DNA sequence. [un...
9	pdb	1FDL	H	IgG1 Fab Fragment (Anti-Lysozyme A...
10	sp	L43544	MUSALCA_1	antibody [Mus musculus]
11	sp	A03907	A03907_1	antibody D1.3 V region (VDJ) [Homo...
12	pir	S38563	S38563	Ig heavy chain V region (ASWS1) - ...
13	pir	A32456	A32456	Ig heavy chain precursor V region ...
14	gp	A05504	A05504_1	pSW1 protein [unidentified] >gp|A0...
15	sp	L43544	MUSALCA_3	Mus musculus (clone pCT.kvhd1) ant...

Consensus analysis

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VL consensus: 1 DVLMTQTPLSLPVSLGDQASISCRSSQSI VHSNGNTYLEWYLQKKGQSPKLLIYFVSNRF 60
1A7: 1 .....P.....N..... 60

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VL consensus: 61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYYCFGGSHVPTFGGGTKLEIK 112
1A7: 61 ..... 112

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VH consensus: 1 QVQLKESGPGLVAPSAQLSITCTVSGFSLTSYGVHWVRQPPGKGLEWLGVIWGDGSTNYH 60
1A7: 1 ...V....F..P.....T...S.I.....A.....T...H 60

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VH consensus: 61 SALKSRSLISKDNSKSOVFLKMNSLTDDTARYYCARExxxxYYAMDYWGQTSVTVSS 119
1A7: 61 ...I.....L.....T....KL--GN.D.L.W..... 117

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CURRICULUM VITAE**PERSONAL DATA**

Name: Sunil K. Chatterjee, Ph.D.

Address: 2400 The Woods Lane
Lexington, KY-40502-6596

Date and Place of Birth: 8/7/40, Calcutta, India

Present Nationality: U.S. Citizen

Sex: Male

Marital Status: Married, two children

Wife's Name: Malaya Bhattacharya-Chatterjee, Ph.D.

Social Security Number: 174-42-8797

Telephone Numbers: Home: (606) 269-2225
Lab: (606) 257-8190
FAX (606) 257-8940

EDUCATION

<u>Institute and Location</u>	<u>Degree</u>	<u>Year</u>	<u>Major Field</u>
Presidency College, Calcutta, India	B.S.	1959	Chemistry
University of Calcutta, India	M.S.	1961	Biochemistry
University of Calcutta, India	Ph.D.	1966	Biochemistry